

## ABSTRAK

Yuvida Eka Pertiwi. **ANALISIS KEMAMPUAN *PROBLEM SOLVING* SISWA KELAS XI *NON SCIENCE* DI SMA NEGERI 3 SUKOHARJO PADA MATERI LARUTAN PENYANGGA**. Skripsi. Fakultas Keguruan dan Ilmu Pendidikan Universitas Sebelas Maret Surakarta. Juli 2018.

Tujuan penelitian ini adalah untuk mengetahui tingkat kemampuan *problem solving* pada setiap faktor dalam materi larutan penyangga siswa kelas XI *non-science* di SMA Negeri 3 Sukoharjo.

Penelitian ini merupakan jenis penelitian deskriptif kualitatif. Sampel dalam penelitian diambil dengan teknik *purposive sampling*. Subjek dalam penelitian adalah siswa kelas XI IIS 2, XI IIS 4 dan XI IIS 5 SMA Negeri 3 Sukoharjo. Teknik pengumpulan data dilakukan dengan tes instrumen *Chemistry Problem Solving Ability Test* (CPSAT) dan dilanjutkan dengan wawancara terhadap siswa yang memiliki kemampuan *problem solving* rendah dalam satu atau lebih faktor kemampuan *problem solving*.

Hasil penelitian menunjukkan rata-rata persentase dan kategori kemampuan *problem solving* pada setiap faktornya dalam materi larutan penyangga siswa kelas XI *non science* SMA Negeri 3 Sukoharjo adalah: (1) faktor Pemecahan Masalah sebesar 69.86% dengan kategori *Very Satisfactory* (VS); (2) faktor Memahami Hubungan antar Konsep Kimia sebesar 58.78% dengan kategori *Satisfactory* (S); (3) faktor Memahami Konsep Kimia Terkait sebesar 58.47% dengan kategori *Satisfactory* (S); (4) faktor Menerapkan Strategi Pemecahan Masalah yang Tepat sebesar 84.16% dengan kategori *Outstanding* (O); (5) faktor Aplikasi Matematika yang Tepat sebesar 85.90% dengan kategori *Outstanding* (O).

**Kata Kunci:** kemampuan *problem solving*, larutan penyangga, siswa *non science*

## **ABSTRACT**

Yuvita Eka Pertiwi. **ANALYSIS OF STUDENTS PROBLEM SOLVING ABILITY OF GRADE XI NON SCIENCE IN HIGH SHCOOL IN THE TOPIC OF BUFFER.** Undergraduate. The Faculty of Teacher Training and Education. Sebelas Maret University. July 2018.

The aim of this research is to determine the level of problem solving ability in every factors on buffer at XI grades students non science senior high school (SMA) Negeri 3 Sukoharjo.

This study is a descriptive qualitative. The sample of this research was taken from purposive sampling technique. This subject in this research was the XI IIS 2, XI IIS 4 and XI IIS 5 students of SMA Negeri 3 Sukoharjo. The data collection technique was used instrument Chemistry Problem Solving Ability Test (CPSAT) and continued by interview with the students who has the weakest problem solving ability in one or other factors of problem solving ability.

The result of research shows that average precentage and category of problem solving ability in every factors of buffer on student of XI grade non science of SMA Negeri 3 Sukoharjo were: (1) Problem Comprehension factor equal to 69.86% with Very Satisfactory (VS) category; (2) Understand Relationship among Chemical Concepts factor equal to 58.78% with Satisfactory (S) category; (3) Understanding Associated Chemical Concepts factor equal to 58.47% with Satisfactory (S) category; (4) Implementing the Right Problem Solving Appropriate Problem Solving Strategies factor of 84.16% with Outstanding (O) category; (5) Using Appropriate Mathematics factor of 85.90% with Outstanding (O) category.

**Keywords :** problem solving ability, buffer solutions, non science students